

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245881

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15930 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1180.4 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

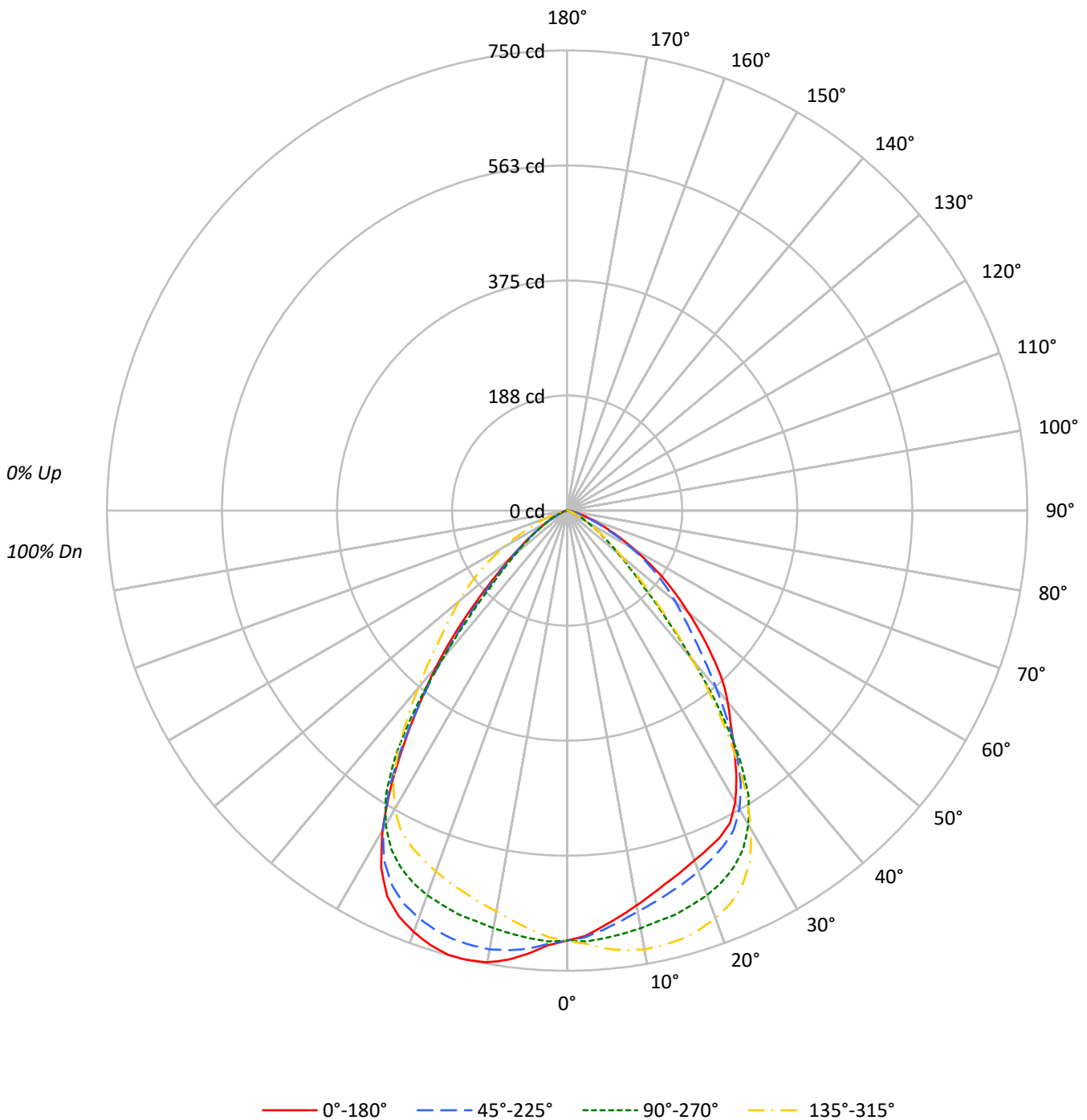
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	5.7
10°-20°	193.2	16.4
20°-30°	292.5	24.8
30°-40°	293.1	24.8
40°-50°	184.1	15.6
50°-60°	98.1	8.3
60°-70°	40.3	3.4
70°-80°	10.7	0.9
80°-90°	1.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	552.3	46.8
0°-40°	845.5	71.6
0°-60°	1127.6	95.5
0°-90°	1180.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	701	701	701	701	701	
5°	680	700	725	700	680	64
15°	628	682	749	682	628	178
25°	588	642	694	642	588	270
35°	474	488	463	488	474	297
45°	334	179	207	179	334	257
55°	190	66	70	66	190	169
65°	76	20	18	20	76	78
75°	21	4	4	4	21	24
85°	4	0	0	0	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7
2.5°	693.6	692.9	692.6	693.2	693.6	694.9	694.6	695.2	695.2	695.7	696.4
5°	679.6	679.2	679.6	679.6	680.9	682.2	681.9	683.0	683.7	685.4	686.1
7.5°	666.5	666.5	666.2	667.6	668.2	670.4	670.0	671.7	672.7	674.4	676.9
10°	653.2	653.2	653.5	654.6	654.9	658.0	658.0	660.4	661.7	663.5	666.5
12.5°	640.2	640.2	642.2	641.5	642.9	645.4	646.4	648.7	650.9	654.2	657.4
15°	627.9	627.9	628.5	630.3	631.3	634.4	636.1	638.9	641.2	644.7	649.1
17.5°	617.3	617.0	617.3	619.4	621.4	624.2	625.5	628.9	631.3	635.7	639.9
20°	606.7	607.4	607.4	609.0	610.4	613.9	615.2	619.0	621.7	625.9	630.7
22.5°	597.5	597.0	597.0	599.5	600.5	603.5	605.0	608.4	611.5	614.9	619.4
25°	588.2	587.5	588.9	589.2	589.9	593.3	594.4	596.7	599.8	602.9	607.4
27.5°	574.5	573.8	574.2	575.5	576.5	579.3	580.0	582.4	584.8	587.5	591.3
30°	548.2	547.5	547.2	549.5	550.5	552.7	553.7	557.7	558.4	561.5	564.2
32.5°	513.3	513.0	513.6	515.7	516.7	519.5	520.8	523.2	524.9	526.6	529.3
35°	474.3	473.6	474.3	476.3	476.3	478.7	479.8	480.8	480.5	480.8	480.1
37.5°	438.0	437.6	438.0	439.0	438.0	439.0	438.0	436.0	432.1	428.1	424.0
40°	407.1	407.5	405.5	406.8	403.1	402.4	398.6	393.5	386.0	377.8	366.1
42.5°	374.3	373.3	371.9	372.6	369.6	367.1	361.0	354.5	344.9	331.3	317.2
45°	333.9	333.6	332.9	332.6	330.6	328.1	323.0	315.4	304.9	290.9	274.1
47.5°	294.6	293.6	293.6	293.9	291.6	291.2	287.1	280.6	271.4	257.6	240.2
50°	256.9	256.6	257.3	258.7	256.9	256.3	253.6	249.1	240.9	229.2	212.9
52.5°	223.1	222.7	223.4	225.1	224.4	225.1	222.4	219.0	213.6	202.2	187.9
55°	189.9	189.9	189.9	191.9	191.9	191.9	190.6	188.6	183.4	175.2	161.9
57.5°	155.4	155.7	157.7	158.1	157.7	158.4	158.1	156.0	152.6	146.9	136.5
60°	126.2	126.2	127.3	128.4	128.0	128.4	128.4	127.3	123.9	119.1	110.9
62.5°	99.9	100.9	100.2	100.9	102.3	100.9	100.2	99.5	97.2	94.1	87.2
65°	75.7	76.3	76.3	76.7	76.0	76.3	75.0	73.9	72.5	69.2	64.7
67.5°	57.5	57.5	57.5	57.5	57.2	56.8	56.5	55.5	53.0	51.7	46.9
70°	44.2	42.0	42.0	42.0	42.0	42.5	41.4	40.0	39.3	37.0	33.5
72.5°	29.4	30.2	29.4	29.4	28.7	29.0	27.7	27.0	26.3	25.0	23.0
75°	21.2	19.5	20.2	20.5	19.5	20.2	18.8	17.5	17.5	16.4	15.4
77.5°	13.7	13.3	13.7	14.0	13.7	13.3	12.7	12.0	12.0	11.7	10.6
80°	10.0	9.5	9.5	9.5	9.2	9.5	8.9	8.9	8.2	7.8	7.2
82.5°	6.5	6.5	6.2	6.5	6.2	6.5	5.5	5.5	5.5	5.2	4.5
85°	4.5	3.8	3.8	4.1	3.5	4.1	3.8	3.5	3.1	3.1	2.7
87.5°	2.0	2.4	2.0	2.4	2.0	2.0	2.4	2.0	2.0	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7
2.5°	697.4	697.7	697.7	699.1	699.7	700.1	700.1	702.9	701.7	702.5	703.2
5°	687.4	689.5	690.2	690.2	693.9	695.2	696.7	699.7	700.1	702.2	704.5
7.5°	677.9	680.2	681.6	684.7	687.1	689.5	693.6	695.7	697.7	700.4	703.5
10°	668.6	671.4	674.1	676.5	680.2	683.4	686.1	690.9	693.2	697.0	701.1
12.5°	659.7	663.5	665.9	670.0	674.1	676.9	680.9	685.4	689.2	692.9	697.7
15°	651.9	656.3	659.0	663.5	667.9	671.7	676.2	681.6	684.4	688.9	693.2
17.5°	643.2	648.1	651.5	655.6	661.1	665.2	669.0	674.4	677.9	682.7	687.7
20°	634.4	639.2	643.2	647.4	652.9	657.0	661.4	666.9	670.7	675.4	679.6
22.5°	623.8	628.2	632.7	637.5	642.9	646.4	651.5	656.3	660.4	664.9	669.0
25°	610.0	615.5	619.0	623.4	627.9	631.7	637.2	641.9	645.4	649.4	653.2
27.5°	594.0	598.2	600.9	604.7	609.0	612.5	616.6	621.4	624.8	628.5	631.3
30°	566.7	570.4	572.8	575.5	580.0	583.0	586.5	590.9	593.3	596.0	598.5
32.5°	530.7	533.8	535.2	537.2	540.3	543.3	546.2	549.9	550.9	552.7	552.7
35°	478.7	479.3	479.0	479.8	481.1	482.8	485.2	487.6	489.0	489.0	488.0
37.5°	417.8	413.6	409.3	405.8	404.8	404.1	405.5	406.5	407.9	408.6	406.8
40°	354.5	345.3	335.3	326.4	320.3	317.6	316.6	317.2	317.2	319.6	319.6
42.5°	300.1	285.7	271.1	257.6	248.7	241.9	238.9	238.9	239.2	240.9	241.9
45°	254.9	236.8	219.7	204.9	192.6	183.7	179.7	178.6	178.2	178.9	181.4
47.5°	220.4	201.6	183.7	165.6	152.6	143.7	139.9	138.6	137.2	138.6	138.9
50°	193.4	173.9	155.0	136.9	123.2	115.4	110.5	108.5	108.2	108.2	108.8
52.5°	168.7	150.6	131.7	113.2	98.9	91.4	86.9	85.9	84.5	85.9	85.9
55°	145.4	127.3	108.8	91.4	79.4	71.5	67.4	66.0	65.4	66.4	66.4
57.5°	120.1	104.7	87.6	71.9	59.9	54.4	51.3	49.7	49.2	50.0	49.2
60°	98.5	85.5	70.8	56.5	47.2	41.4	39.0	38.3	37.7	38.3	38.3
62.5°	78.0	67.0	55.0	44.2	36.3	32.2	29.4	29.4	29.0	29.0	29.4
65°	57.8	49.2	40.7	31.5	25.3	22.2	20.2	20.2	19.8	20.2	19.8
67.5°	42.0	36.3	29.4	23.0	18.2	16.4	15.0	14.0	14.7	14.0	13.7
70°	30.8	26.0	21.2	17.5	14.0	12.3	11.3	11.0	10.3	10.3	10.3
72.5°	20.5	17.5	14.3	11.3	9.2	7.5	7.2	6.5	5.8	6.2	6.8
75°	13.7	11.7	10.3	8.2	6.2	6.2	4.1	4.1	3.5	4.1	3.1
77.5°	9.5	7.8	6.2	5.2	4.1	3.8	2.7	2.7	2.4	2.4	2.4
80°	6.8	5.8	4.5	3.8	2.7	2.7	2.4	2.0	1.7	1.7	2.0
82.5°	4.1	3.1	3.1	2.7	1.7	1.3	1.0	1.3	0.7	0.7	0.7
85°	2.4	2.0	1.7	1.0	0.7	0.7	0.3	0.0	0.3	0.3	0.0
87.5°	1.3	0.7	0.7	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7
2.5°	704.9	704.5	705.2	705.2	707.2	706.9	707.9	707.9	707.2	707.6	709.0
5°	707.2	708.4	710.4	712.1	715.1	716.5	718.2	719.9	720.2	721.4	722.4
7.5°	707.2	710.7	713.1	716.2	720.2	722.7	726.4	729.5	730.9	732.6	734.6
10°	705.9	709.4	713.7	717.2	722.4	726.1	729.9	734.6	736.7	739.4	742.2
12.5°	703.2	706.9	711.7	716.2	722.0	725.4	730.2	734.6	737.7	741.5	744.6
15°	699.1	703.5	707.9	712.4	718.6	722.7	727.1	732.2	735.4	739.4	742.2
17.5°	692.6	697.4	701.4	705.6	711.4	716.2	720.2	725.1	728.2	731.6	735.4
20°	684.7	689.2	693.6	697.0	702.9	706.9	711.4	715.9	718.2	718.9	724.7
22.5°	674.7	677.9	681.2	686.7	690.2	693.9	698.0	702.2	704.5	708.4	710.4
25°	658.4	661.4	665.2	667.6	671.7	674.7	678.9	683.4	684.7	687.4	689.5
27.5°	635.4	637.2	638.9	640.9	643.2	645.0	647.4	649.4	650.9	652.2	653.5
30°	599.2	599.2	599.2	597.8	598.8	599.8	600.2	599.8	599.8	599.5	599.5
32.5°	551.2	548.5	545.5	542.7	541.7	540.3	539.6	538.5	536.8	535.8	536.2
35°	486.5	480.5	476.6	473.2	470.5	468.5	467.5	466.3	466.0	464.7	463.3
37.5°	405.8	401.3	398.6	396.6	394.1	392.1	392.5	392.8	393.8	393.1	393.5
40°	320.3	319.3	320.3	317.9	317.2	317.9	319.6	322.0	323.4	324.8	327.1
42.5°	243.6	245.4	247.7	247.7	248.7	250.1	252.2	255.9	257.9	260.4	263.1
45°	183.4	185.4	188.6	189.6	190.2	191.9	194.4	197.4	198.8	200.9	203.2
47.5°	141.4	142.7	144.4	146.1	147.9	148.5	150.9	150.9	152.6	154.0	154.7
50°	110.2	111.5	112.9	113.9	114.7	115.7	116.4	117.4	117.7	118.4	118.7
52.5°	86.2	87.9	87.9	88.7	89.7	90.7	90.4	90.7	91.0	91.0	92.0
55°	67.4	67.4	68.4	68.4	69.2	68.7	69.2	69.2	69.2	69.2	69.5
57.5°	50.3	50.7	51.7	51.0	50.7	51.3	50.7	51.3	51.0	51.7	50.7
60°	38.7	38.7	39.0	39.0	39.3	39.3	39.3	39.0	39.0	38.7	38.7
62.5°	29.0	29.4	29.8	29.4	29.4	29.4	29.0	29.0	28.7	28.4	28.4
65°	19.5	19.2	19.8	19.2	19.5	19.5	19.2	19.5	18.5	18.8	18.5
67.5°	14.0	13.7	13.3	13.7	13.3	13.0	13.0	13.3	13.7	12.7	12.7
70°	9.2	9.5	9.2	9.5	10.0	10.0	9.5	9.2	9.5	8.9	9.2
72.5°	5.8	5.8	5.8	5.8	5.8	6.2	6.2	6.2	5.5	5.5	5.2
75°	2.7	3.8	3.1	2.7	3.8	3.8	3.5	3.5	3.1	3.1	3.1
77.5°	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7	2.0	1.7
80°	1.3	1.3	1.3	1.0	1.3	1.3	1.7	1.3	1.3	1.0	1.7
82.5°	0.7	0.7	0.7	0.0	0.3	0.7	0.7	0.3	0.7	0.7	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7
2.5°	708.7	708.4	708.7	709.0	708.7	708.4	708.7	709.0	707.6	707.2	707.9
5°	723.7	723.7	724.4	724.7	724.4	723.7	723.7	722.4	721.4	720.2	719.9
7.5°	736.7	737.4	738.1	738.4	738.1	737.4	736.7	734.6	732.6	730.9	729.5
10°	744.6	745.6	746.9	747.6	746.9	745.6	744.6	742.2	739.4	736.7	734.6
12.5°	748.0	749.1	750.7	750.4	750.7	749.1	748.0	744.6	741.5	737.7	734.6
15°	745.6	746.9	748.7	749.4	748.7	746.9	745.6	742.2	739.4	735.4	732.2
17.5°	738.1	740.1	741.2	742.2	741.2	740.1	738.1	735.4	731.6	728.2	725.1
20°	727.8	729.2	730.6	730.9	730.6	729.2	727.8	724.7	718.9	718.2	715.9
22.5°	713.1	714.1	717.2	716.2	717.2	714.1	713.1	710.4	708.4	704.5	702.2
25°	691.9	692.9	693.2	693.6	693.2	692.9	691.9	689.5	687.4	684.7	683.4
27.5°	655.2	655.2	655.9	656.3	655.9	655.2	655.2	653.5	652.2	650.9	649.4
30°	599.8	599.8	599.8	601.5	599.8	599.8	599.8	599.5	599.5	599.8	599.8
32.5°	535.8	535.2	534.5	535.2	534.5	535.2	535.8	536.2	535.8	536.8	538.5
35°	463.3	463.0	464.0	462.6	464.0	463.0	463.3	463.3	464.7	466.0	466.3
37.5°	393.8	393.1	394.5	393.1	394.5	393.1	393.8	393.5	393.1	393.8	392.8
40°	327.8	328.5	328.5	331.3	328.5	328.5	327.8	327.1	324.8	323.4	322.0
42.5°	264.6	266.6	265.9	267.9	265.9	266.6	264.6	263.1	260.4	257.9	255.9
45°	204.6	206.0	206.0	206.7	206.0	206.0	204.6	203.2	200.9	198.8	197.4
47.5°	157.1	157.1	157.1	157.4	157.1	157.1	157.1	154.7	154.0	152.6	150.9
50°	119.4	119.7	120.1	120.4	120.1	119.7	119.4	118.7	118.4	117.7	117.4
52.5°	91.7	92.0	91.4	92.0	91.4	92.0	91.7	92.0	91.0	91.0	90.7
55°	69.5	69.2	69.5	69.8	69.5	69.2	69.5	69.5	69.2	69.2	69.2
57.5°	51.0	50.3	50.3	50.3	50.3	50.3	51.0	50.7	51.7	51.0	51.3
60°	38.0	38.3	38.3	38.7	38.3	38.3	38.0	38.7	38.7	39.0	39.0
62.5°	28.0	29.0	28.4	29.0	28.4	29.0	28.0	28.4	28.4	28.7	29.0
65°	18.2	18.2	18.2	18.5	18.2	18.2	18.2	18.5	18.8	18.5	19.5
67.5°	12.3	12.7	13.3	13.0	13.3	12.7	12.3	12.7	12.7	13.7	13.3
70°	10.0	8.9	8.9	10.0	8.9	8.9	10.0	9.2	8.9	9.5	9.2
72.5°	5.8	5.2	5.8	5.8	5.8	5.2	5.8	5.2	5.5	5.5	6.2
75°	3.1	2.7	2.4	3.5	2.4	2.7	3.1	3.1	3.1	3.1	3.5
77.5°	2.0	1.7	2.4	2.4	2.4	1.7	2.0	1.7	2.0	1.7	2.0
80°	1.0	1.3	1.0	1.7	1.0	1.3	1.0	1.7	1.0	1.3	1.3
82.5°	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.7	0.7	0.3
85°	0.0	0.7	0.3	0.3	0.3	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7
2.5°	707.9	706.9	707.2	705.2	705.2	704.5	704.9	703.2	702.5	701.7	702.9
5°	718.2	716.5	715.1	712.1	710.4	708.4	707.2	704.5	702.2	700.1	699.7
7.5°	726.4	722.7	720.2	716.2	713.1	710.7	707.2	703.5	700.4	697.7	695.7
10°	729.9	726.1	722.4	717.2	713.7	709.4	705.9	701.1	697.0	693.2	690.9
12.5°	730.2	725.4	722.0	716.2	711.7	706.9	703.2	697.7	692.9	689.2	685.4
15°	727.1	722.7	718.6	712.4	707.9	703.5	699.1	693.2	688.9	684.4	681.6
17.5°	720.2	716.2	711.4	705.6	701.4	697.4	692.6	687.7	682.7	677.9	674.4
20°	711.4	706.9	702.9	697.0	693.6	689.2	684.7	679.6	675.4	670.7	666.9
22.5°	698.0	693.9	690.2	686.7	681.2	677.9	674.7	669.0	664.9	660.4	656.3
25°	678.9	674.7	671.7	667.6	665.2	661.4	658.4	653.2	649.4	645.4	641.9
27.5°	647.4	645.0	643.2	640.9	638.9	637.2	635.4	631.3	628.5	624.8	621.4
30°	600.2	599.8	598.8	597.8	599.2	599.2	599.2	598.5	596.0	593.3	590.9
32.5°	539.6	540.3	541.7	542.7	545.5	548.5	551.2	552.7	552.7	550.9	549.9
35°	467.5	468.5	470.5	473.2	476.6	480.5	486.5	488.0	489.0	489.0	487.6
37.5°	392.5	392.1	394.1	396.6	398.6	401.3	405.8	406.8	408.6	407.9	406.5
40°	319.6	317.9	317.2	317.9	320.3	319.3	320.3	319.6	319.6	317.2	317.2
42.5°	252.2	250.1	248.7	247.7	247.7	245.4	243.6	241.9	240.9	239.2	238.9
45°	194.4	191.9	190.2	189.6	188.6	185.4	183.4	181.4	178.9	178.2	178.6
47.5°	150.9	148.5	147.9	146.1	144.4	142.7	141.4	138.9	138.6	137.2	138.6
50°	116.4	115.7	114.7	113.9	112.9	111.5	110.2	108.8	108.2	108.2	108.5
52.5°	90.4	90.7	89.7	88.7	87.9	87.9	86.2	85.9	85.9	84.5	85.9
55°	69.2	68.7	69.2	68.4	68.4	67.4	67.4	66.4	66.4	65.4	66.0
57.5°	50.7	51.3	50.7	51.0	51.7	50.7	50.3	49.2	50.0	49.2	49.7
60°	39.3	39.3	39.3	39.0	39.0	38.7	38.7	38.3	38.3	37.7	38.3
62.5°	29.0	29.4	29.4	29.4	29.8	29.4	29.0	29.4	29.0	29.0	29.4
65°	19.2	19.5	19.5	19.2	19.8	19.2	19.5	19.8	20.2	19.8	20.2
67.5°	13.0	13.0	13.3	13.7	13.3	13.7	14.0	13.7	14.0	14.7	14.0
70°	9.5	10.0	10.0	9.5	9.2	9.5	9.2	10.3	10.3	10.3	11.0
72.5°	6.2	6.2	5.8	5.8	5.8	5.8	5.8	6.8	6.2	5.8	6.5
75°	3.5	3.8	3.8	2.7	3.1	3.8	2.7	3.1	4.1	3.5	4.1
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.4	2.4	2.4	2.7
80°	1.7	1.3	1.3	1.0	1.3	1.3	1.3	2.0	1.7	1.7	2.0
82.5°	0.7	0.7	0.3	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7	700.7
2.5°	700.1	700.1	699.7	699.1	697.7	697.7	697.4	696.4	695.7	695.2	695.2
5°	696.7	695.2	693.9	690.2	690.2	689.5	687.4	686.1	685.4	683.7	683.0
7.5°	693.6	689.5	687.1	684.7	681.6	680.2	677.9	676.9	674.4	672.7	671.7
10°	686.1	683.4	680.2	676.5	674.1	671.4	668.6	666.5	663.5	661.7	660.4
12.5°	680.9	676.9	674.1	670.0	665.9	663.5	659.7	657.4	654.2	650.9	648.7
15°	676.2	671.7	667.9	663.5	659.0	656.3	651.9	649.1	644.7	641.2	638.9
17.5°	669.0	665.2	661.1	655.6	651.5	648.1	643.2	639.9	635.7	631.3	628.9
20°	661.4	657.0	652.9	647.4	643.2	639.2	634.4	630.7	625.9	621.7	619.0
22.5°	651.5	646.4	642.9	637.5	632.7	628.2	623.8	619.4	614.9	611.5	608.4
25°	637.2	631.7	627.9	623.4	619.0	615.5	610.0	607.4	602.9	599.8	596.7
27.5°	616.6	612.5	609.0	604.7	600.9	598.2	594.0	591.3	587.5	584.8	582.4
30°	586.5	583.0	580.0	575.5	572.8	570.4	566.7	564.2	561.5	558.4	557.7
32.5°	546.2	543.3	540.3	537.2	535.2	533.8	530.7	529.3	526.6	524.9	523.2
35°	485.2	482.8	481.1	479.8	479.0	479.3	478.7	480.1	480.8	480.5	480.8
37.5°	405.5	404.1	404.8	405.8	409.3	413.6	417.8	424.0	428.1	432.1	436.0
40°	316.6	317.6	320.3	326.4	335.3	345.3	354.5	366.1	377.8	386.0	393.5
42.5°	238.9	241.9	248.7	257.6	271.1	285.7	300.1	317.2	331.3	344.9	354.5
45°	179.7	183.7	192.6	204.9	219.7	236.8	254.9	274.1	290.9	304.9	315.4
47.5°	139.9	143.7	152.6	165.6	183.7	201.6	220.4	240.2	257.6	271.4	280.6
50°	110.5	115.4	123.2	136.9	155.0	173.9	193.4	212.9	229.2	240.9	249.1
52.5°	86.9	91.4	98.9	113.2	131.7	150.6	168.7	187.9	202.2	213.6	219.0
55°	67.4	71.5	79.4	91.4	108.8	127.3	145.4	161.9	175.2	183.4	188.6
57.5°	51.3	54.4	59.9	71.9	87.6	104.7	120.1	136.5	146.9	152.6	156.0
60°	39.0	41.4	47.2	56.5	70.8	85.5	98.5	110.9	119.1	123.9	127.3
62.5°	29.4	32.2	36.3	44.2	55.0	67.0	78.0	87.2	94.1	97.2	99.5
65°	20.2	22.2	25.3	31.5	40.7	49.2	57.8	64.7	69.2	72.5	73.9
67.5°	15.0	16.4	18.2	23.0	29.4	36.3	42.0	46.9	51.7	53.0	55.5
70°	11.3	12.3	14.0	17.5	21.2	26.0	30.8	33.5	37.0	39.3	40.0
72.5°	7.2	7.5	9.2	11.3	14.3	17.5	20.5	23.0	25.0	26.3	27.0
75°	4.1	6.2	6.2	8.2	10.3	11.7	13.7	15.4	16.4	17.5	17.5
77.5°	2.7	3.8	4.1	5.2	6.2	7.8	9.5	10.6	11.7	12.0	12.0
80°	2.4	2.7	2.7	3.8	4.5	5.8	6.8	7.2	7.8	8.2	8.9
82.5°	1.0	1.3	1.7	2.7	3.1	3.1	4.1	4.5	5.2	5.5	5.5
85°	0.3	0.7	0.7	1.0	1.7	2.0	2.4	2.7	3.1	3.1	3.5
87.5°	0.3	0.3	0.0	0.3	0.7	0.7	1.3	1.3	1.3	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245881

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	700.7	700.7	700.7	700.7	700.7	700.7	700.7
2.5°	694.6	694.9	693.6	693.2	692.6	692.9	693.6
5°	681.9	682.2	680.9	679.6	679.6	679.2	679.6
7.5°	670.0	670.4	668.2	667.6	666.2	666.5	666.5
10°	658.0	658.0	654.9	654.6	653.5	653.2	653.2
12.5°	646.4	645.4	642.9	641.5	642.2	640.2	640.2
15°	636.1	634.4	631.3	630.3	628.5	627.9	627.9
17.5°	625.5	624.2	621.4	619.4	617.3	617.0	617.3
20°	615.2	613.9	610.4	609.0	607.4	607.4	606.7
22.5°	605.0	603.5	600.5	599.5	597.0	597.0	597.5
25°	594.4	593.3	589.9	589.2	588.9	587.5	588.2
27.5°	580.0	579.3	576.5	575.5	574.2	573.8	574.5
30°	553.7	552.7	550.5	549.5	547.2	547.5	548.2
32.5°	520.8	519.5	516.7	515.7	513.6	513.0	513.3
35°	479.8	478.7	476.3	476.3	474.3	473.6	474.3
37.5°	438.0	439.0	438.0	439.0	438.0	437.6	438.0
40°	398.6	402.4	403.1	406.8	405.5	407.5	407.1
42.5°	361.0	367.1	369.6	372.6	371.9	373.3	374.3
45°	323.0	328.1	330.6	332.6	332.9	333.6	333.9
47.5°	287.1	291.2	291.6	293.9	293.6	293.6	294.6
50°	253.6	256.3	256.9	258.7	257.3	256.6	256.9
52.5°	222.4	225.1	224.4	225.1	223.4	222.7	223.1
55°	190.6	191.9	191.9	191.9	189.9	189.9	189.9
57.5°	158.1	158.4	157.7	158.1	157.7	155.7	155.4
60°	128.4	128.4	128.0	128.4	127.3	126.2	126.2
62.5°	100.2	100.9	102.3	100.9	100.2	100.9	99.9
65°	75.0	76.3	76.0	76.7	76.3	76.3	75.7
67.5°	56.5	56.8	57.2	57.5	57.5	57.5	57.5
70°	41.4	42.5	42.0	42.0	42.0	42.0	44.2
72.5°	27.7	29.0	28.7	29.4	29.4	30.2	29.4
75°	18.8	20.2	19.5	20.5	20.2	19.5	21.2
77.5°	12.7	13.3	13.7	14.0	13.7	13.3	13.7
80°	8.9	9.5	9.2	9.5	9.5	9.5	10.0
82.5°	5.5	6.5	6.2	6.5	6.2	6.5	6.5
85°	3.8	4.1	3.5	4.1	3.8	3.8	4.5
87.5°	2.4	2.0	2.0	2.4	2.0	2.4	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)